



Department of the Army  
New York District Corps of Engineers  
Jacob K. Javits Federal Building  
26 Federal Plaza  
New York, NY 10278-0090

## Week of November 10 – November 16, 2008

The following file displays the results from the USACE-NYD real-time website for the week of Monday, November 10, through Sunday, November 16, 2008.

The even pages display the home page showing the maximum vibration measured in all of the stations for most recent event for each day:

November 10  
November 11  
November 12  
November 13  
November 14  
November 15  
November 16

The odd pages show the maximum vibration observed at each station along easting for each event.

Blasting has not started. We do not anticipate blasting to start until sometime in 2009. The results for this week show the ambient results measured at the two active stations: one at 350 Richmond Terrace and the other at St. Peters Church. The station locations are on each page.

The maximum vibrations are observed at 350 Richmond Terrace. The higher vibrations result from traffic during the daylight hours. All levels are all below 0.0370 in/s. This magnitude is an order of magnitude below the allowable vibrations shown by the straight lines on the graphs.

The measurements at St. Peters Church are below 0.01 in/s. St. Peters Church is one block up the hill from Richmond Terrace traffic. They fall below the x-axis on the event page.

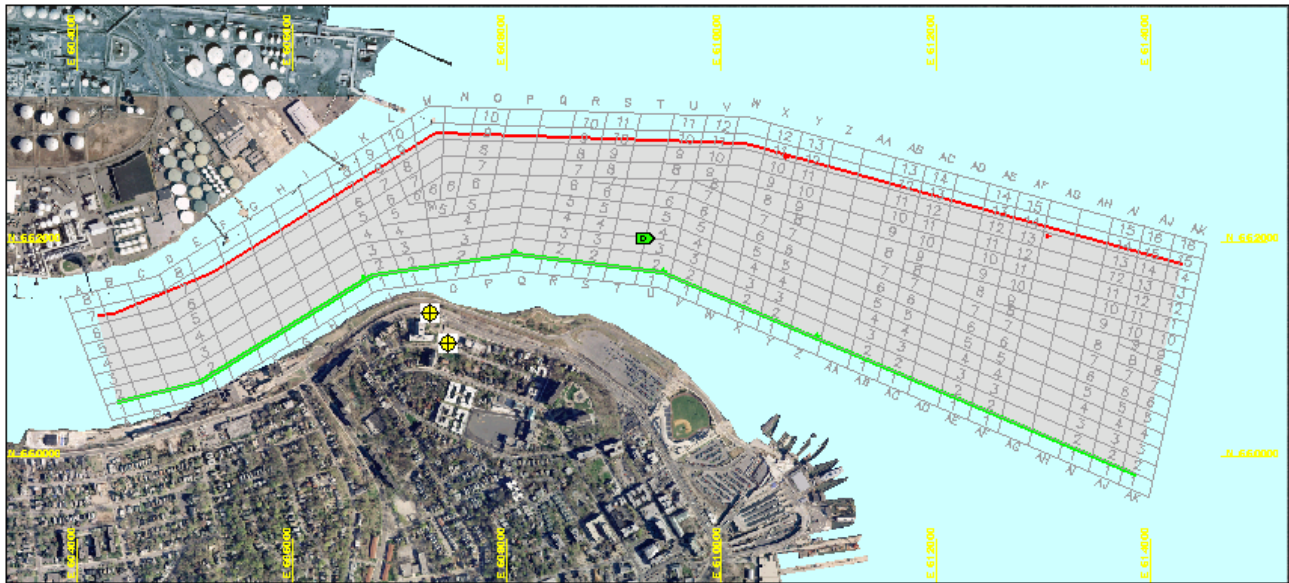
### Kill Van Kull Blast Vibration Summary

This site summarizes the measured ground vibrations in St. George, Staten Island, from rock blasting in the Kill Van Kull and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract S-KVK-1 starting 29 September 2008.

This page represents the most recent observations.

The S-KVK-1 contract area is mapped below in solid gray. The navigation grid is superimposed. The dredge locations are marked by a green symbol. The drilling and blasting barge is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

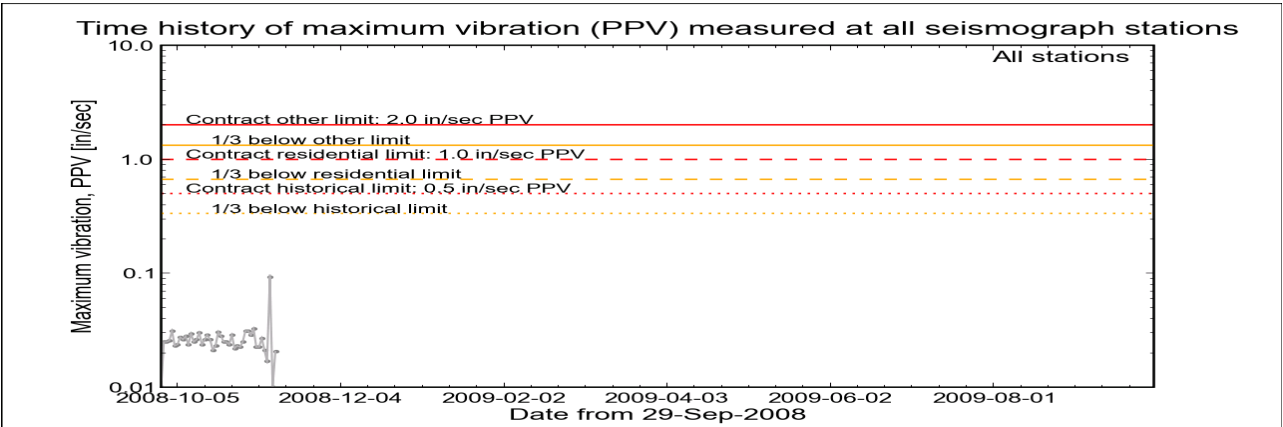
Click station for station information or click channel for event summary.



#### Latest Event Summary

The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 29 September 2008. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). The red curves show the project's contract limits; the orange curves show one-third (1/3) below these contract limits. (*The light gray curve is ambient-vibration level. The black curve is blast-vibration level. The dark gray curve is predicted blast-vibration level.*)

Date and time of last reading: Mon 10-Nov-2008 19:13:45



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
<a href="#">Ambient</a>	<a href="#">Mon 10-Nov-2008</a>	19:13:45	0.0206	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sun 09-Nov-2008</a>	20:31:29	0.0081	<a href="#">St. Peters Church</a>
<a href="#">Ambient</a>	<a href="#">Sat 08-Nov-2008</a>	15:46:40	0.0931	<a href="#">St. Peters Church</a>
<a href="#">Ambient</a>	<a href="#">Fri 07-Nov-2008</a>	00:01:31	0.0169	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Thu 06-Nov-2008</a>	02:01:31	0.0212	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Wed 05-Nov-2008</a>	14:31:33	0.0269	<a href="#">350 Richmond Terrace</a>



Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

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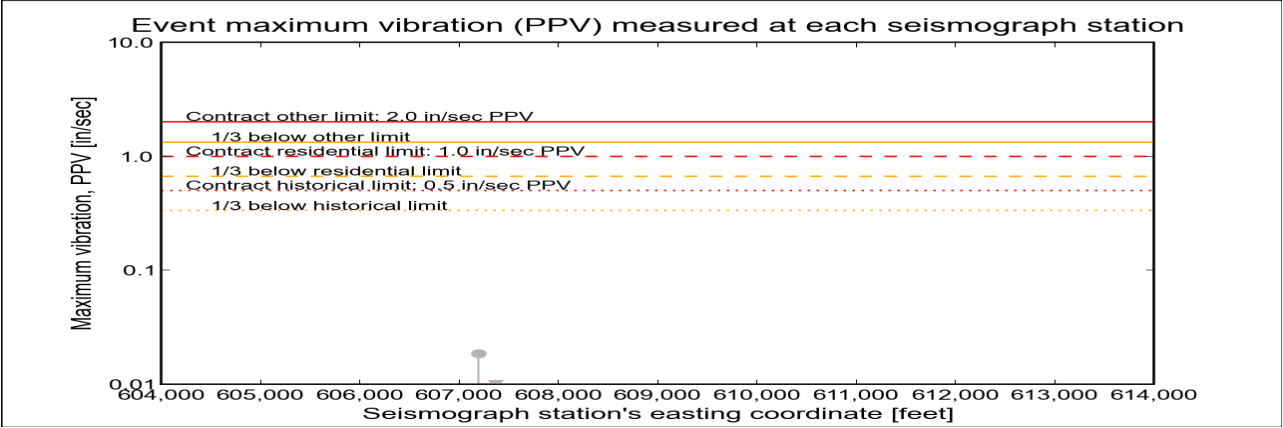
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Mon 10-Nov-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
<a href="#">350 Richmond Terrace - e4s002</a>	Mon 10-Nov-2008	19:13:45	0.0187	Ambient
<a href="#">St. Peters Church - e4s001</a>	Mon 10-Nov-2008	14:01:38	0.005	Ambient



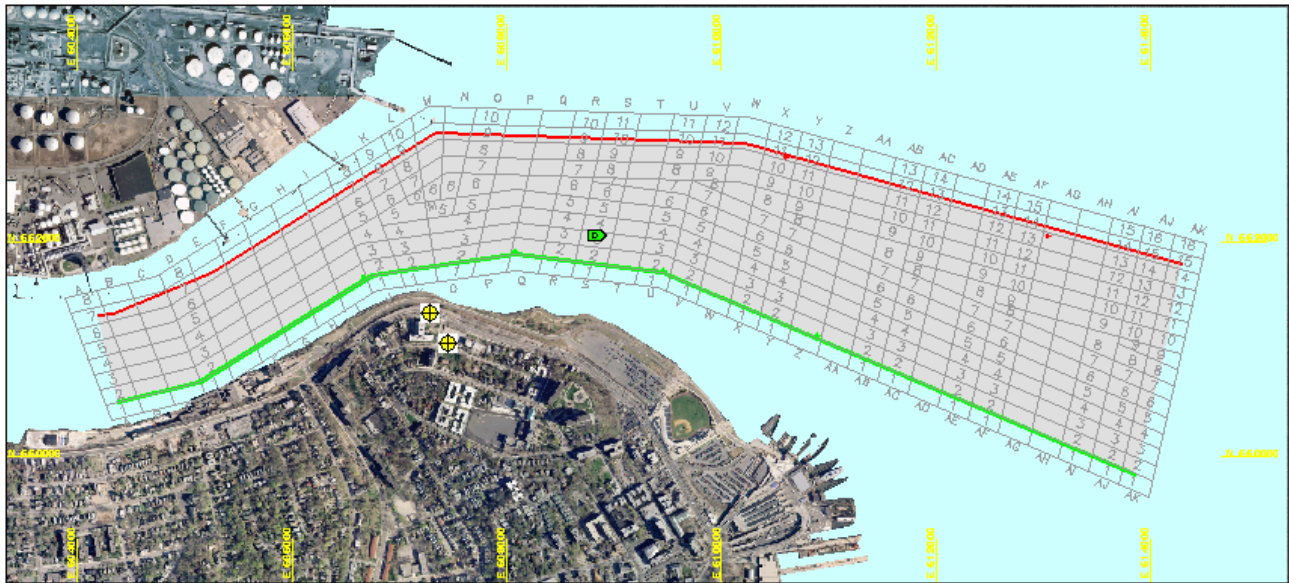
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This page represents the most recent observations.

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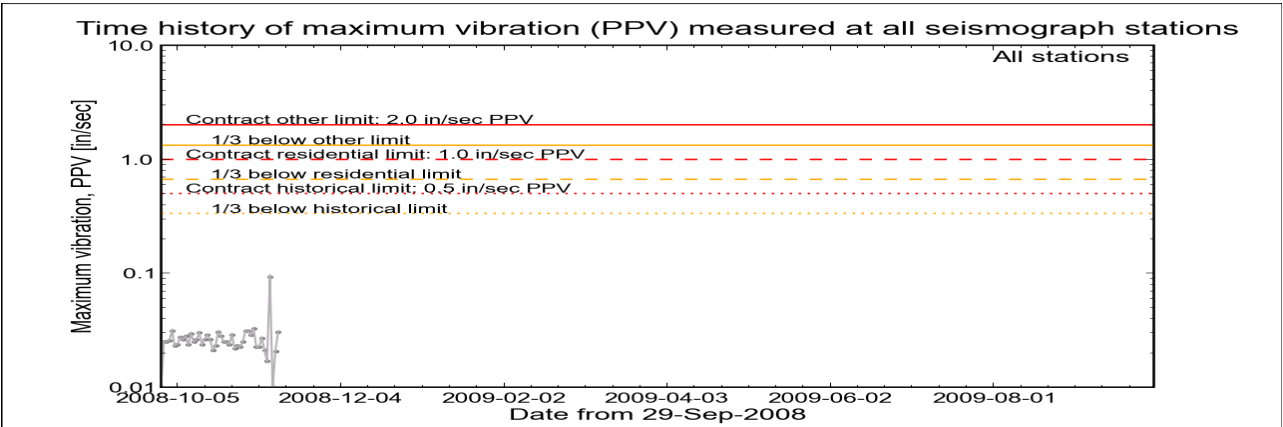
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Latest Event Summary

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Date and time of last reading: Tue 11-Nov-2008 11:51:16



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
<a href="#">Ambient</a>	<a href="#">Tue 11-Nov-2008</a>	11:51:16	0.0306	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Mon 10-Nov-2008</a>	19:13:45	0.0206	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sun 09-Nov-2008</a>	20:31:29	0.0081	<a href="#">St. Peters Church</a>
<a href="#">Ambient</a>	<a href="#">Sat 08-Nov-2008</a>	15:46:40	0.0931	<a href="#">St. Peters Church</a>
<a href="#">Ambient</a>	<a href="#">Fri 07-Nov-2008</a>	00:01:31	0.0169	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Thu 06-Nov-2008</a>	02:01:31	0.0212	<a href="#">350 Richmond Terrace</a>



Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

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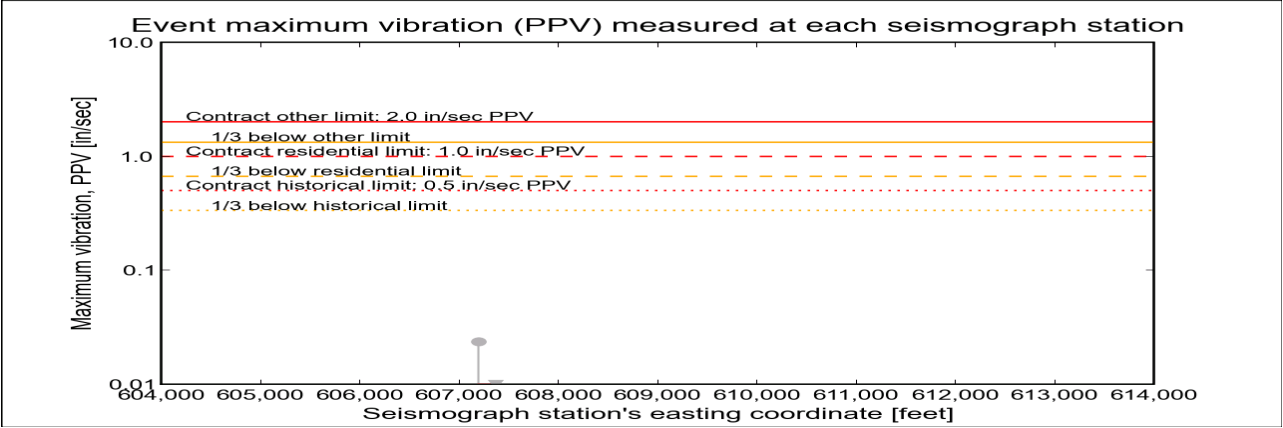
Click station for more information about the station.



Selected Event Summary

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Date of reading: Tue 11-Nov-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
<a href="#">350 Richmond Terrace - e4s002</a>	Tue 11-Nov-2008	00:10:15	0.0237	Ambient
<a href="#">St. Peters Church - e4s001</a>	Tue 11-Nov-2008	04:06:16	0.00375	Ambient





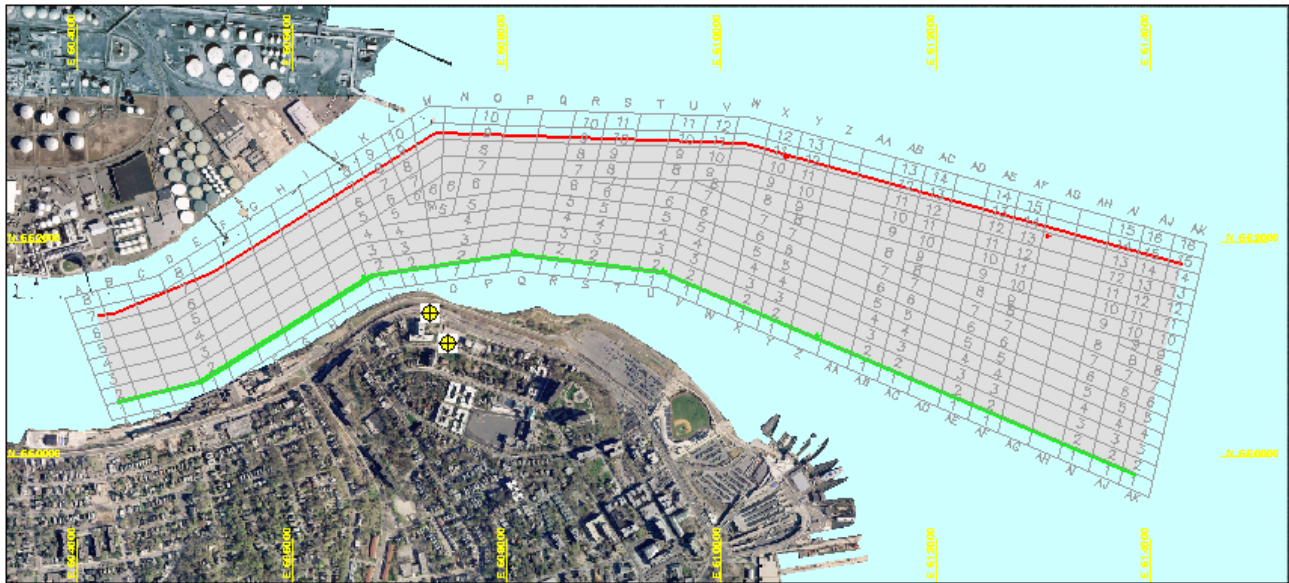
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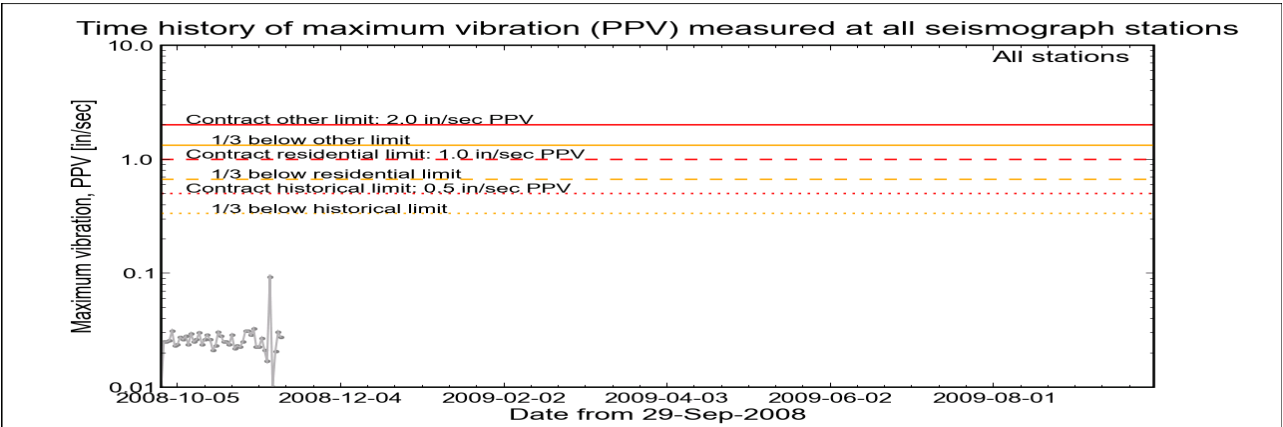
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Latest Event Summary

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Date and time of last reading: Wed 12-Nov-2008 05:36:16



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
<a href="#">Ambient</a>	<a href="#">Wed 12-Nov-2008</a>	05:36:16	0.0275	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Tue 11-Nov-2008</a>	11:51:16	0.0306	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Mon 10-Nov-2008</a>	19:13:45	0.0206	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sun 09-Nov-2008</a>	20:31:29	0.0081	<a href="#">St. Peters Church</a>
<a href="#">Ambient</a>	<a href="#">Sat 08-Nov-2008</a>	15:46:40	0.0931	<a href="#">St. Peters Church</a>
<a href="#">Ambient</a>	<a href="#">Fri 07-Nov-2008</a>	00:01:31	0.0169	<a href="#">350 Richmond Terrace</a>



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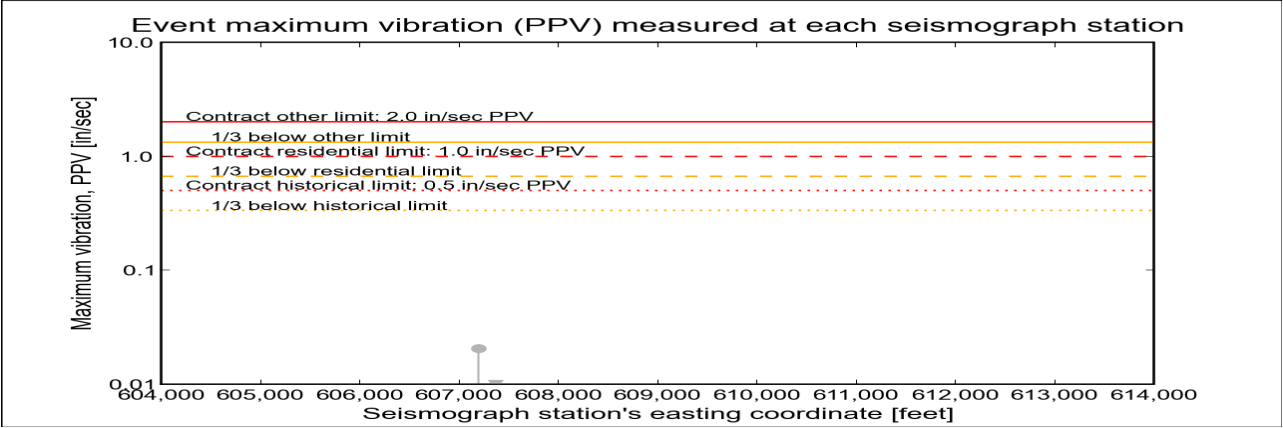
Click station for more information about the station.



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Date of reading: Wed 12-Nov-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
<a href="#">350 Richmond Terrace - e4s002</a>	Wed 12-Nov-2008	05:36:16	0.0206	Ambient
<a href="#">St. Peters Church - e4s001</a>	Wed 12-Nov-2008	00:53:29	0.00375	Ambient



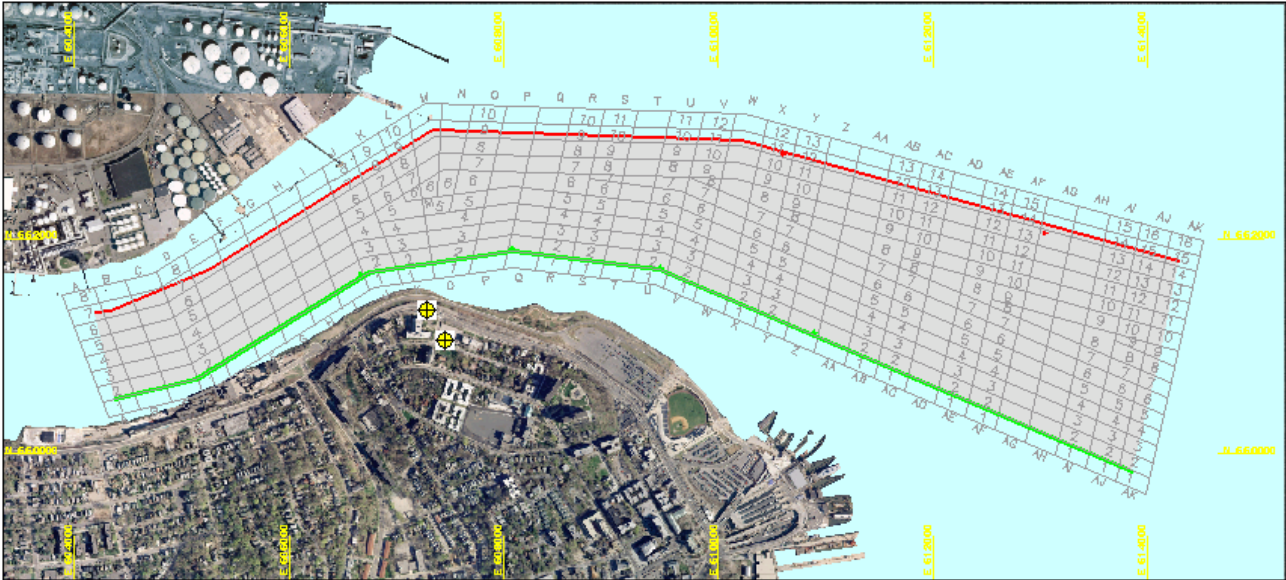
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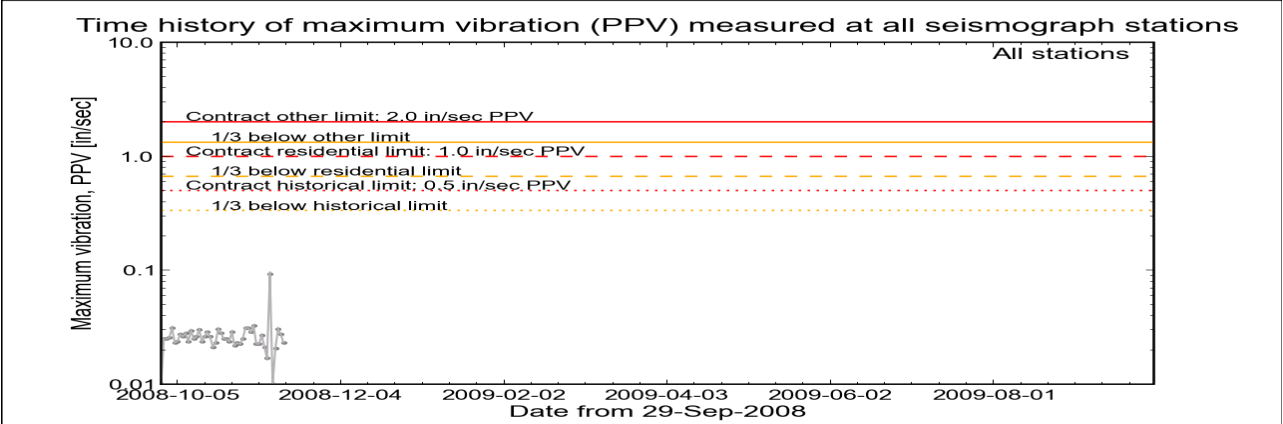
Click station for station information or click channel for event summary.



#### Latest Event Summary

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Date and time of last reading: Thu 13-Nov-2008 13:06:16



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
<a href="#">Ambient</a>	<a href="#">Thu 13-Nov-2008</a>	13:06:16	0.0231	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Wed 12-Nov-2008</a>	05:36:16	0.0275	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Tue 11-Nov-2008</a>	11:51:16	0.0306	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Mon 10-Nov-2008</a>	19:13:45	0.0206	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sun 09-Nov-2008</a>	20:31:29	0.0081	<a href="#">St. Peters Church</a>
<a href="#">Ambient</a>	<a href="#">Sat 08-Nov-2008</a>	15:46:40	0.0931	<a href="#">St. Peters Church</a>





Kill Van Kull Blasting Event Summary

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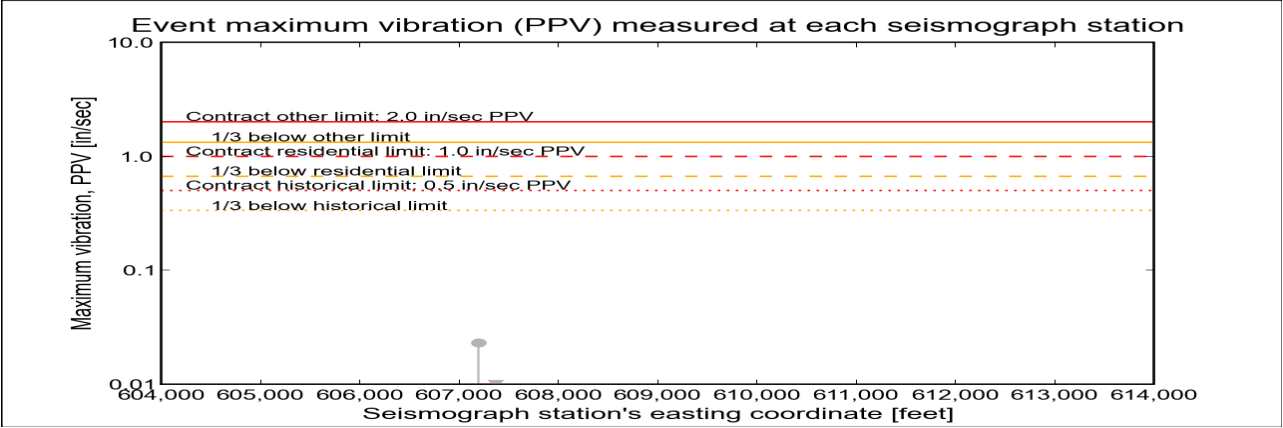
Click station for more information about the station.



Selected Event Summary

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Date of reading: Thu 13-Nov-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
<a href="#">350 Richmond Terrace - e4s002</a>	Thu 13-Nov-2008	13:06:16	0.0231	Ambient
<a href="#">St. Peters Church - e4s001</a>	Thu 13-Nov-2008	12:39:52	0.00562	Ambient

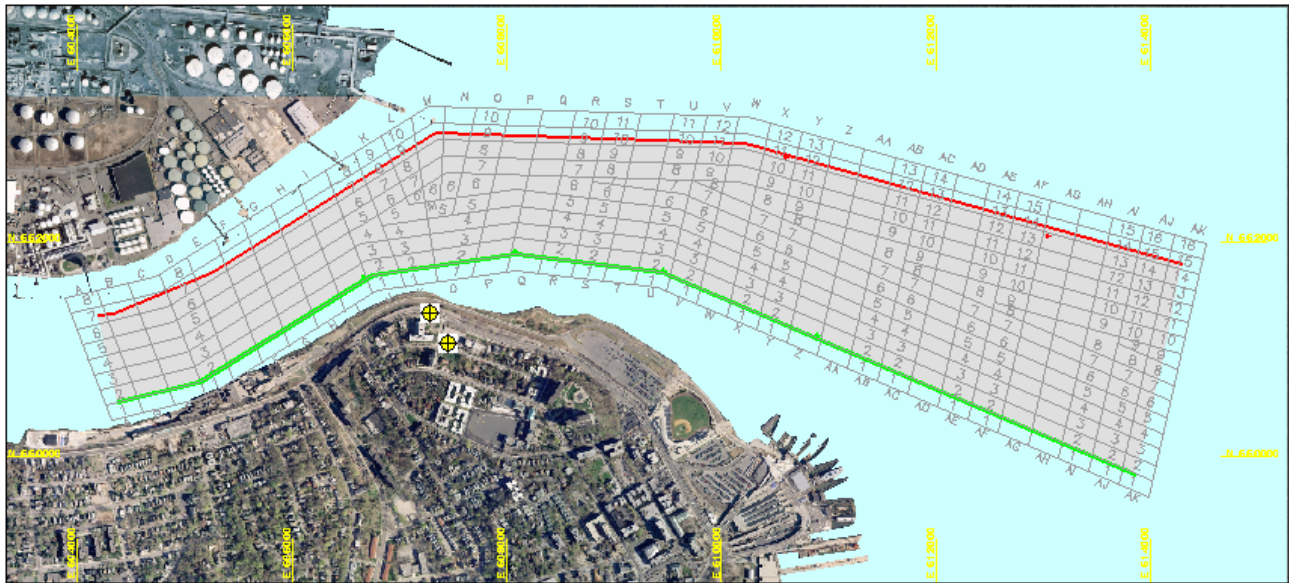
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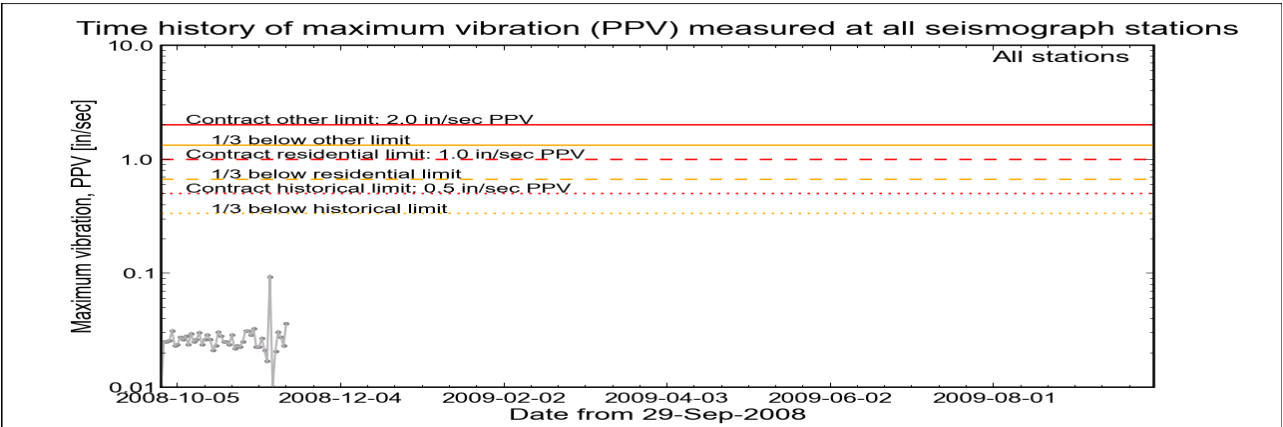
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Date and time of last reading: Fri 14-Nov-2008 11:19:19



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
<a href="#">Ambient</a>	<a href="#">Fri 14-Nov-2008</a>	11:19:19	0.0362	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Thu 13-Nov-2008</a>	13:06:16	0.0231	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Wed 12-Nov-2008</a>	05:36:16	0.0275	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Tue 11-Nov-2008</a>	11:51:16	0.0306	<a href="#">350 Richmond Terrace</a>
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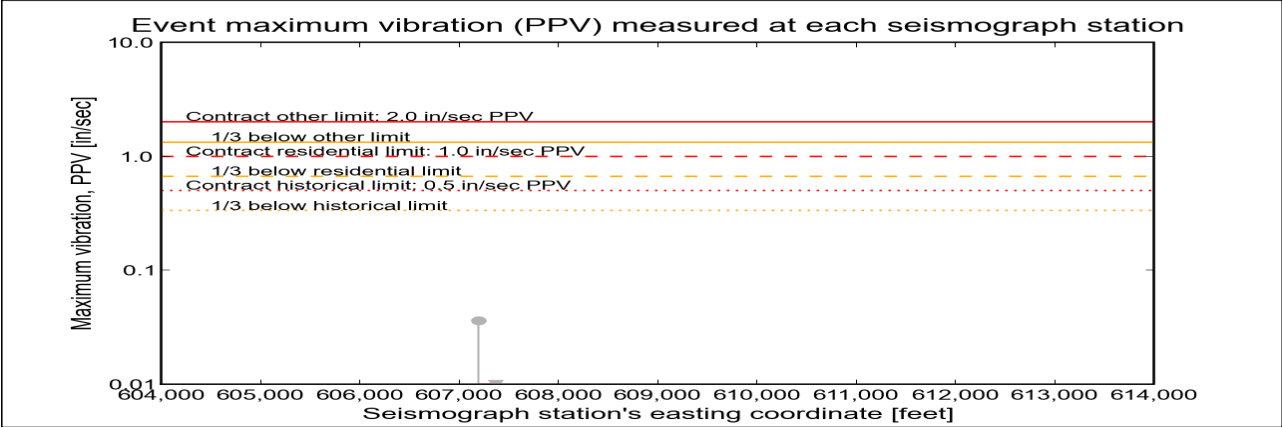
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Date of reading: Fri 14-Nov-2008



(Click on graph or [here](#) for larger view)

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Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Fri 14-Nov-2008	11:19:19	0.0362	Ambient
St. Peters Church - e4s001	Fri 14-Nov-2008	04:01:30	0.00375	Ambient



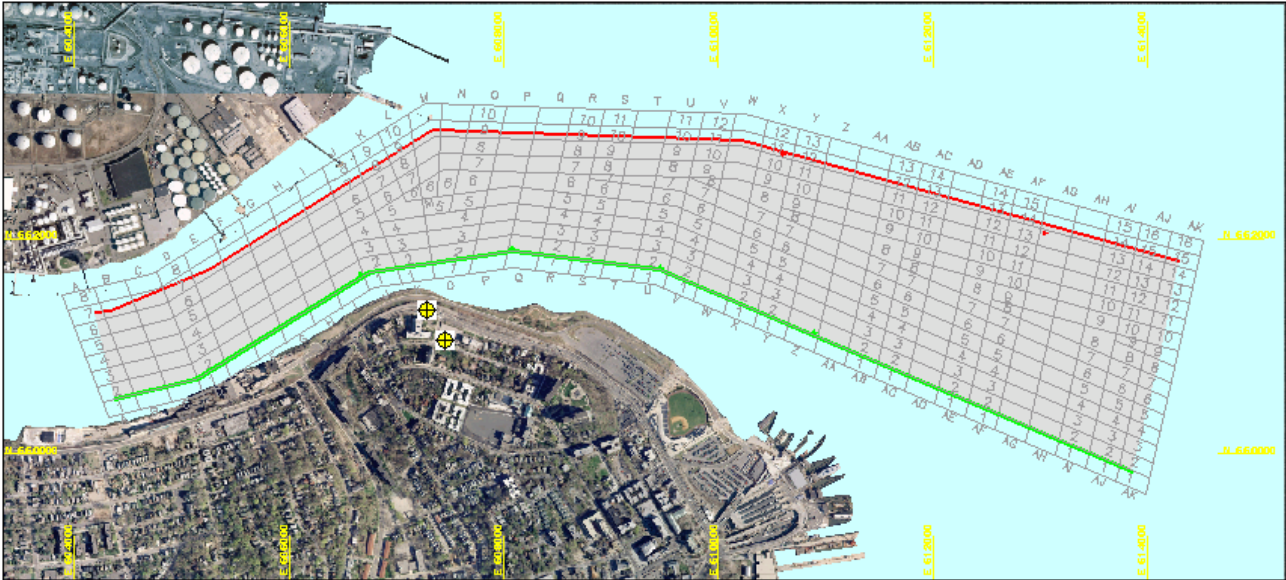
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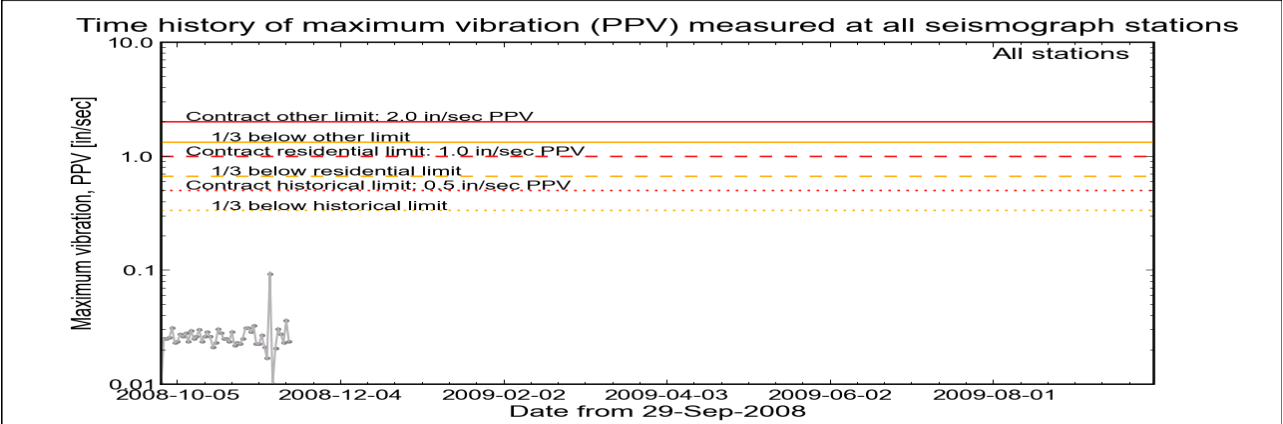
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Date and time of last reading: Sat 15-Nov-2008 02:31:34



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
<a href="#">Ambient</a>	<a href="#">Sat 15-Nov-2008</a>	02:31:34	0.0237	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Fri 14-Nov-2008</a>	11:19:19	0.0362	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Thu 13-Nov-2008</a>	13:06:16	0.0231	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Wed 12-Nov-2008</a>	05:36:16	0.0275	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Tue 11-Nov-2008</a>	11:51:16	0.0306	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Mon 10-Nov-2008</a>	19:13:45	0.0206	<a href="#">350 Richmond Terrace</a>



Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The S-KVK-1 contract area is mapped below in solid blue with a top-of-rock map. The dredge locations are marked by a green symbol. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

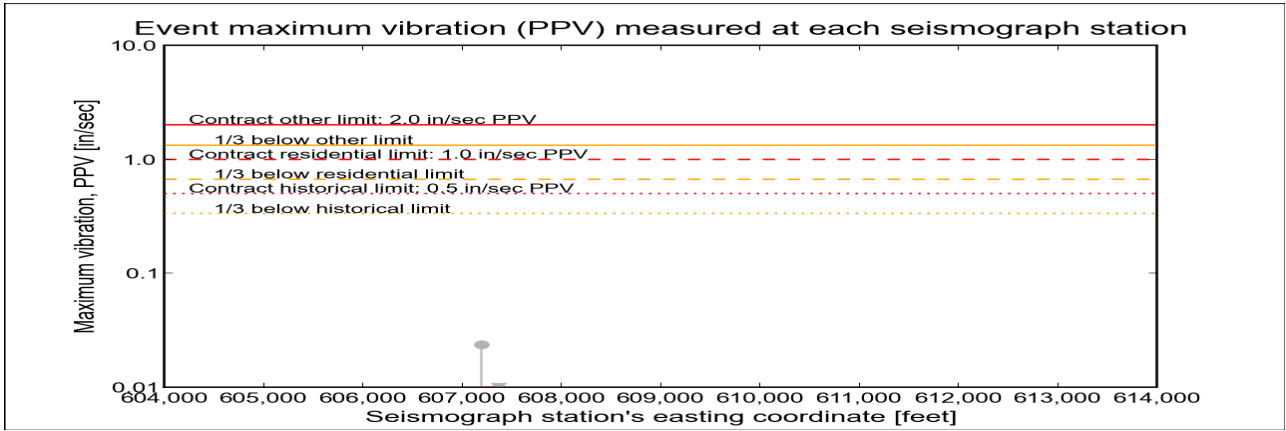
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Sat 15-Nov-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
<a href="#">350 Richmond Terrace - e4s002</a>	Sat 15-Nov-2008	02:31:34	0.0237	<a href="#">Ambient</a>
<a href="#">St. Peters Church - e4s001</a>	Sat 15-Nov-2008	20:16:33	0.00437	<a href="#">Ambient</a>





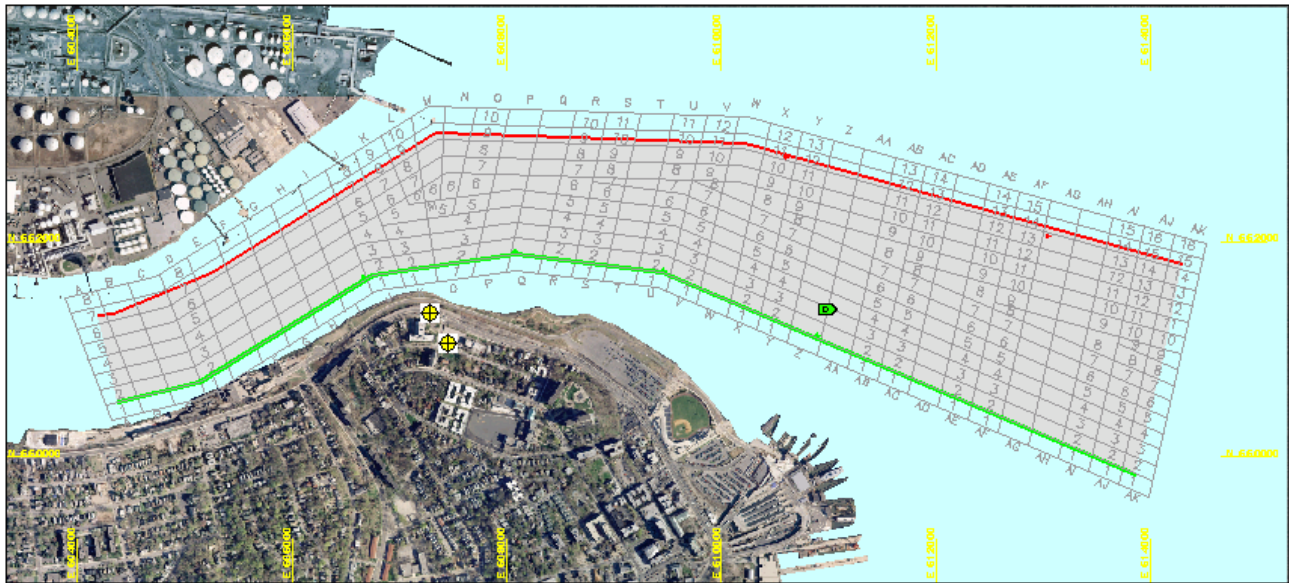
Kill Van Kull Blast Vibration Summary

This site summarizes the measured ground vibrations in St. George, Staten Island, from rock blasting in the Kill Van Kull and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract S-KVK-1 starting 29 September 2008.

This page represents the most recent observations.

The S-KVK-1 contract area is mapped below in solid gray. The navigation grid is superimposed. The dredge locations are marked by a green symbol. The drilling and blasting barge is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (Earthworks stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

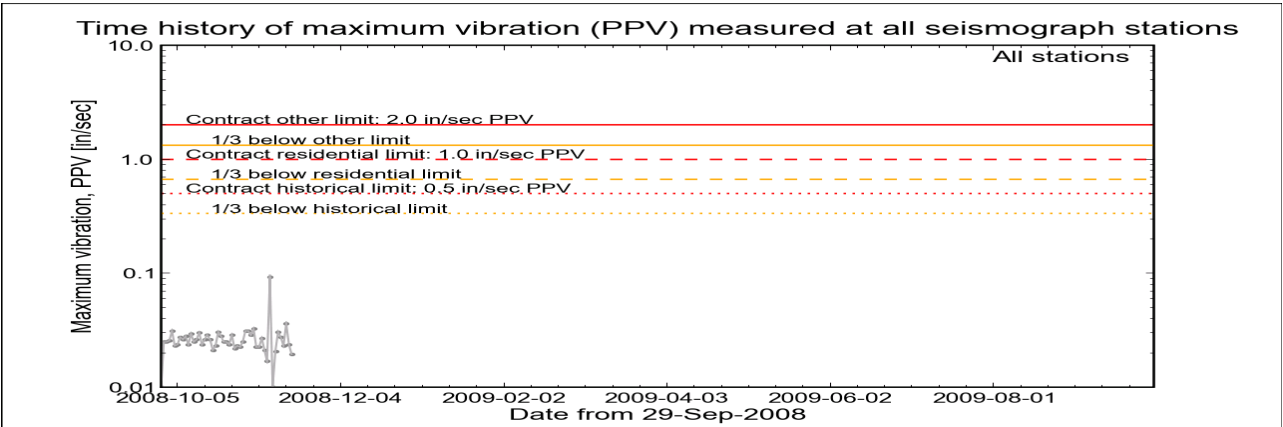
Click station for station information or click channel for event summary.



Latest Event Summary

The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 29 September 2008. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). The red curves show the project's contract limits; the orange curves show one-third (1/3) below these contract limits. (The light gray curve is ambient-vibration level. The black curve is blast-vibration level. The dark gray curve is predicted blast-vibration level.)

Date and time of last reading: Sun 16-Nov-2008 00:16:34



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sun 16-Nov-2008	00:16:34	0.0194	<a href="#">350 Richmond Terrace</a>
Ambient	Sat 15-Nov-2008	02:31:34	0.0237	<a href="#">350 Richmond Terrace</a>
Ambient	Fri 14-Nov-2008	11:19:19	0.0362	<a href="#">350 Richmond Terrace</a>
Ambient	Thu 13-Nov-2008	13:06:16	0.0231	<a href="#">350 Richmond Terrace</a>
Ambient	Wed 12-Nov-2008	05:36:16	0.0275	<a href="#">350 Richmond Terrace</a>
Ambient	Tue 11-Nov-2008	11:51:16	0.0306	<a href="#">350 Richmond Terrace</a>





Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The S-KVK-1 contract area is mapped below in solid blue with a top-of-rock map. The dredge locations are marked by a green symbol. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

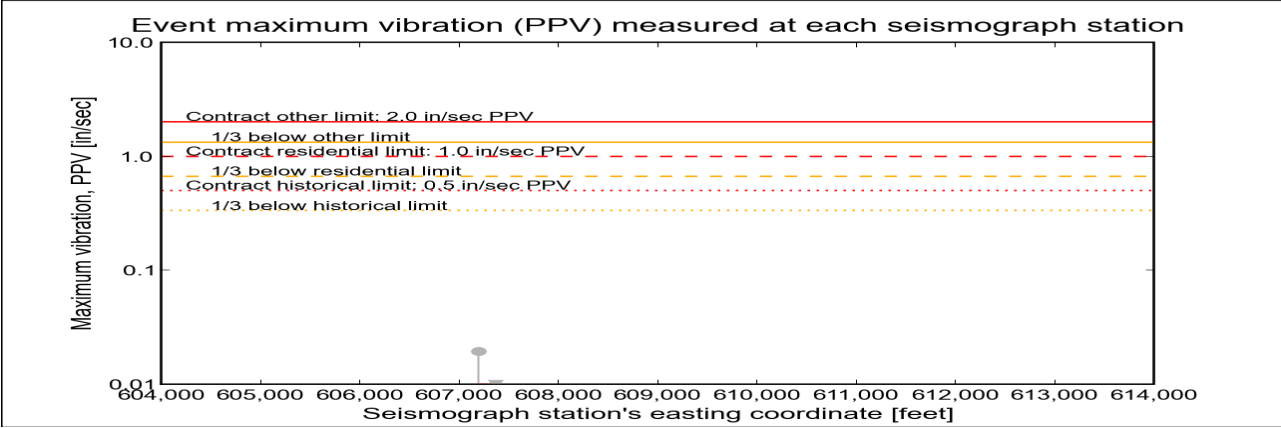
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Sun 16-Nov-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Sun 16-Nov-2008	00:16:34	0.0194	Ambient
St. Peters Church - e4s001	Sun 16-Nov-2008	01:16:33	0.00375	Ambient